Sanitized Copy Approved for Release 2011/08/11 : CIA-RDP78-03424A000200020006-3 **STATIONARD FORM NO. 64**\*\*TATIONARD FORM NO. 64

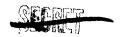
## Office Memorandum • United States Government

To : The Files - RD-91	<b>DATE:</b> 16 August 1955	
FROM:		25X1 25X1
SUBJECT:		
them by	submitted a tentative proposal submitted to  covering antenna details. Dr.  with sample antenna and test data.  the prototypes developed for Signal Corps tiber) for a crystal video system covering  DA-36-0390SC-63098.	25X1 25X1 25X1 25X1
from beam characteristics, gain The end result was a mutual red Thus various approaches to the	countered in the frequency range 50 to 500 mcs n and physical size/configuration were explored. cognition that no simple solution existed. problems were considered including the utilizain lieu of conventional reflectors.	
	antenna test facilities, and it was concluded ble for this Office to loan the following	25 <b>X</b> 1
antennas for apprais  A. Resonant dipole (	sal and possible refinement to this problem: (50 - 500 mc) antenna (500 - 1000) 5 kmc)	25 <b>X</b> 1
In turn the loaned us a 2 - ment by R&D Laboratory.	- 4.5 kmc helix for R&D examination and measure-	25 <b>X</b> 1
<u> </u>	personnel, additional overall details were ect personnel.	25X1 25X1
a. Space available w profile plan (section only) and		25X1
height of seven feet above compantenna base) a maximum of 17'	that the antenna array would be at a minimum panion ways to be extended (measurement at above deck level. Thus adequate head room for ed and when on search missions the antennas	

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would be above the craft's radar mast thus reducing, to some degree, the screening to be encountered in the forward direction as well as interaction

with other antennas installed.



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Visit to	Page 2	16 August 19	955 25X
longer in produc	had originally indicated that a T be furnished for pulse analyzer us ction. SP/EA has requested that a	se - this instrument is no	25X
will che	ck as to current availability.		25 <b>X</b>
crystal video us output connected simultaneously; monitor headset recorder output and at the same have a combined signals be received is viewing the sof the crystal views.	indicated to , as coordinated nit would be used as a command united to oscilloscope the headphone most thus when the operator switches result likewise be switched to receively time will be also routed to a command output jack and a camera actived on additional receiver during scope presentation, a camera recorvideo conselevillanticipate a requester compass from the craft's compareview.	t position. With the vide mitor will also be switched price X to the scope, his exert. That individual er for recording purposes bining amplifier which will tuate jack. Thus, should the period when the operated is possible. The layout wirement for having located	ed is 11 ator 5
limitations enco dbm is achievabl of more recent.co	rrent knowledge of detector crysta Duntered. Thus we know that a min le but not what maximum can be obt crystal developments is t r examination at R&D Laboratory an	imum sensitivity of -45 ained through the employme o furnish some sample	ent 25X
		A	25X

